

# REMOVABLE ESD PROTECTION DEVICE USING DIODES

## ABSTRACT

A removable device which is used during manufacturing for ESD/EOD protection and removed when the head is mounted in a drive. The device consists of crossed diodes which are mounted in the device and will connect to the readers. Each reader has two or more crossed diodes detachably coupled to its leads. The diodes are mounted on a device which is removable at the end of manufacturing assembly and the device can be reused. The device limits the voltage across a reader to the voltage limit of the number of diodes connected in series. Crossed diodes are connected in parallel with the electrical device to be protected to protect against random current spikes in either direction through the device in question. The device has leads which can be connected to an external device to measure the reader resistance or other electrical properties.